

UNITED STATES PATENT APPLICATION

FOR

**GAMING DEVICE HAVING AN ORDERED DESIGNATION OF
BONUS VALUES IN MULTIPLE VALUE SETS**

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**GAMING DEVICE HAVING AN ORDERED DESIGNATION OF
BONUS VALUES IN MULTIPLE VALUE SETS**

PRIORITY CLAIM

5 This application is a continuation application of U.S. Patent Application, Serial No. 09/978,913, filed on October 15, 2001, entitled "Gaming Device Having an Ordered Designation of Bonus Values in Multiple Value Sets," which is incorporated herein by reference.

10 **CROSS REFERENCE TO RELATED APPLICATIONS**

 This application is related to the following co-pending commonly owned patent applications: "Gaming Device Having A Bonus Scheme With Multiple Selection Groups," Serial No. 09/656,702, Attorney Docket No. 0112300-008; Gaming Device Having Competition Bonus Scheme," Serial No. 09/628,144, Attorney Docket No. 0112300-028; "Gaming Device Having A Multiple Selection Group Bonus Round," Serial No. 09/605,107, Attorney Docket No. 0112300-031; "Gaming Device Having Related Multi-Game Bonus Scheme," Serial No. 09/688,972, Attorney Docket No. 0112300-158; "Gaming Device With A Bonus Scheme Having Repeated Selection Of Value Sets With Option To Save Values," Serial No. 09/684,533, Attorney Docket No. 0112300-469; "Gaming Device Having A Multiple Selection And Award Distribution Bonus Scheme," Serial No. 09/688,635, Attorney Docket No. 0112300-476; "Gaming Device Having Regenerating Multiple Award Opportunities," Serial No. 09/960,784, Attorney Docket No. 0112300-485; "Gaming Device Including Choices Having

Varying Probabilities Of Contributing To Game's Termination," Serial No. 09/957,308, Attorney Docket No. 0112300-489; "Gaming Device Having Termination Variable," Serial No. 09/966,658, Attorney Docket No. 0112300-578; "Gaming Device Having A Bonus Scheme With Multiple Potential Award
5 Sets," Serial No. 09/822,697, Attorney Docket No 0112300-592; "Gaming Device Having An award Distributor And An Award Accumulator Bonus Game," Serial No. 09/682,369, Attorney Docket No. 0112300-766; and "Gaming Device Having Competing Awards," Serial No. 09/960,785, Attorney Docket No. 0112300-812.

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DESCRIPTION

20 The present invention relates in general to a gaming device, and more particularly to a gaming device which has a bonus game which enables players to make inputs and receive values in a particular value order from value sets associated with the outcomes of the inputs.

BACKGROUND OF THE INVENTION

Many existing gaming machines, such as traditional slot machines, include bonus rounds. Typically, a bonus round begins when the player reaches a bonus triggering event in the primary game of the gaming device. In slot machines with reels, the triggering event usually occurs when the player reaches a predetermined combination of symbols on the reels. Usually, the bonus scheme provides the player with an opportunity to gain a bonus value before the bonus round terminates. Some of these existing bonus schemes involve players making inputs and receiving values associated with the outcomes of the inputs. To increase player enjoyment and excitement, it is desirable to provide players with new gaming device bonus schemes.

SUMMARY OF THE INVENTION

The gaming device bonus scheme of the present invention provides players with a plurality of inputs and value sets. An input can include any opportunity to cause an outcome or initiate an event or sequence of events in a bonus round. Each of the value sets includes a plurality of predetermined values. The values are arranged in a predetermined value order. The value order is the order or sequence in which the gaming device stores in memory, and preferably indicates, different values in a value set. The gaming device can indicate or distinguish values in any fashion so as to inform a player as to which values the gaming device may award to the player at the end of the bonus

round. For example, a value set may include the values twenty, ten, fifty and thirty. The value order could be first fifty, second ten, third thirty and fourth twenty. Preferably, the values increase in magnitude in a trend consistent with the value order. In this example, the value order is thus preferably first ten,
5 second twenty, third thirty and fourth fifty. It is also preferable that each of the value sets in a bonus round include the same quantity of values.

The gaming device enables the player to gain values by making certain inputs. By making inputs, a player can cause the gaming device to temporarily store in memory or otherwise designate and preferably indicate, values in value
10 sets associated with certain input outcomes. The gaming device terminates when a terminating condition occurs. In one embodiment, a terminating condition occurs when a player makes a predetermined input or when the gaming device stores, designates or indicates a predetermined amount of values.

15 In one embodiment, when the bonus round terminates, the gaming device awards the player with one or more, and preferably all of the stored, designated or indicated values. In other embodiments, when the bonus round terminates, the gaming device processor applies a predetermined mathematical equation or formula to the designated values in the value sets. Using the
20 formula, the processor calculates a final bonus value award which the player receives. The formula can include: (a) the addition of the values designated in the value sets; (b) the subtraction of the values designated in the value sets; (c) the multiplication of the values designated in the value sets; or (d) any other

mathematical operation or manipulation of the designated values in the value sets.

5 In operation of one embodiment, the gaming device provides the player with a predetermined number of inputs and value sets associated with certain input outcomes. The gaming device then enables a player to make an input. If the input outcome does not result in a terminating condition, the gaming device stores in memory or designates, and preferably indicates, one or more of the values in the value set associated with the input outcome. When storing, designating or indicating values, the gaming device follows the value order
10 associated with the value sets which include such values. This process continues until the player makes an input which results in a terminating condition. When the bonus round terminates, the gaming device provides the player with a payout equal to the sum of some and preferable all of the stored, designated or indicated values in all of the value sets.

15 In one embodiment, the input is a choice of selections. The gaming device visually informs the player of the value order associated with each value set. In this embodiment, the value sets include vertical arrangements of values, and the gaming device indicates values in a value order from bottom to top in a ladder-like fashion. When a player chooses a selection, the gaming device
20 reveals a symbol. Some symbols are associated with particular value sets and others limit the duration of the bonus round. Preferably, the relationship of symbol to value set is indicated to the player through graphics and/or themes shared by the value sets and the symbols. For example, a bonus round could

include three value sets which are colored red, green and gold, respectively, and the respective symbols associated with those value sets could be colored red, green and gold. Therefore, if a player chooses a selection which reveals a red symbol, the gaming device would indicate the first value in the red value set.

- 5 The gaming device enables the player to choose additional selections until a terminating condition occurs. In this embodiment, a terminating condition preferably occurs when the gaming device indicates all of the values in a value set or when a player chooses a selection which terminates the bonus round. When the terminating condition occurs, the gaming device provides the player
10 with the payout corresponding to all of the indicated values in all of the value sets.

It is also preferable that, in this embodiment, the symbols do not change in position or quantity after the player chooses a selection. As such, the gaming device preferably displays or reveals each symbol reached by the player
15 continuously until the bonus round terminates. In an alternative embodiment, after the player chooses a selection, the gaming device can change the position and/or quantity of symbols provided to the player. Preferably in such embodiment, the gaming device enables the player to choose the same selection more than once.

- 20 It should be appreciated that although it is preferable that when a player makes an input, the processor designates a single value in a value set, the input outcome can cause the processor to simultaneously designate multiple values. This type of outcome is at times referred to herein as a multi-value

outcome. For example, if a value set has five values and a player makes a predetermined input, a multi-value outcome may occur, causing the processor to designate three values for the player at one time.

5 The bonus scheme of the present invention provides players with a plurality of value sets and one or more input opportunities to indicate values in the value sets. When indicating values in value sets, the gaming device does so in a predetermined value order by incrementing from the first value toward the last value. In one embodiment, when the player chooses certain selections during a bonus round, the gaming device indicates values in the value sets
10 associated with the chosen selections. This type of bonus scheme increases the enjoyment and entertainment experienced by gaming device players.

It is therefore an advantage of the present invention to provide a gaming device having an ordered designation of bonus values in multiple value sets.

Other objects, features and advantages of the invention will be apparent
15 from the following detailed disclosure, taken in conjunction with the accompanying sheets of drawings, wherein like numerals refer to like parts, elements, components, steps and processes.

BRIEF DESCRIPTION OF THE DRAWINGS

20 Fig. 1A is a perspective view of one embodiment of the gaming device of the present invention;

Fig. 1B is a perspective view of another embodiment of the gaming device of the present invention;

Fig. 2 is a schematic block diagram of the electronic configuration of one embodiment of the gaming device of the present invention;

Fig. 3 is an example of a value order in one embodiment of the present invention;

5 Fig. 4 is a flow diagram of one embodiment of the present invention;

Figs. 5A, 5B, 5C, 5D, 5E, 5F and 5G are top plan views of the displays of an example bonus round of one embodiment of the present invention; and

Figs. 6A, 6B, 6C, 6D and 6E are top plan views of the displays of example bonus rounds in various embodiments of the present invention.

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DETAILED DESCRIPTION OF THE INVENTION

Gaming Device and Electronics

Referring now to the drawings, two embodiments of the gaming device of the present invention are illustrated in Figs. 1A and 1B as gaming device 10a
15 and gaming device 10b, respectively. Gaming device 10a and/or gaming device 10b are generally referred to herein as gaming device 10. Gaming device 10 is in one embodiment a slot machine having the controls, displays and features of a conventional slot machine. It is constructed so that a player can operate it while standing or sitting, and gaming device 10 is preferably
20 mounted on a console or cabinet. However, it should be appreciated that gaming device 10 can be constructed as a pub-style table-top game (not shown) which a player can operate preferably while sitting. Furthermore, gaming device 10 can be constructed with varying cabinet and display designs,

as illustrated by the designs shown in Figs. 1A and 1B. Gaming device 10 can also be implemented as a program code stored in a detachable cartridge for operating a hand-held video game device. Also, gaming device 10 can be implemented as a program code stored on a disk or other memory device which
5 a player can use in a desktop or laptop personal computer or other computerized platform.

Gaming device 10 can incorporate any primary game such as slot, poker or keno, any of their bonus triggering events and any of their bonus round games. The symbols and indicia used on and in gaming device 10 may be in
10 mechanical, electronic, electrical or video form.

As illustrated in Figs. 1A and 1B, gaming device 10 includes a coin slot 12 and bill acceptor 14 where the player inserts money, coins or tokens. The player can place coins in the coin slot 12 or paper money or ticket vouchers in the bill acceptor 14. Other devices could be used for accepting payment such
15 as readers or validators for credit cards or debit cards. When a player inserts money in gaming device 10, a number of credits corresponding to the amount deposited is shown in a credit display 16. After depositing the appropriate amount of money, a player can begin the game by pulling arm 18 or pushing play button 20. Play button 20 can be any play activator used by the player
20 which starts any game or sequence of events in the gaming device.

As shown in Figs. 1A and 1B, gaming device 10 also includes a bet display 22 and a bet one button 24. The player places a bet by pushing the bet one button 24. The player can increase the bet by one credit each time the

player pushes the bet one button 24. When the player pushes the bet one button 24, the number of credits shown in the credit display 16 decreases by one, and the number of credits shown in the bet display 22 increases by one.

5 A player may "cash out" and thereby receive a number of coins corresponding to the number of remaining credits by pushing a cash out button 26. When the player "cashes out," the player receives the coins in a coin payout tray 28. The gaming device 10 may employ other payout mechanisms such as credit slips redeemable by a cashier or electronically recordable cards which keep track of the player's credits.

10 Gaming device 10 also includes one or more display devices. The embodiment shown in Fig. 1A includes a central display device 30, and the alternative embodiment shown in Fig. 1B includes a central display device 30 as well as an upper display device 32. Gaming device 10 preferably displays a plurality of reels 34, preferably three to five reels 34 in mechanical or video form
15 at one or more of the display devices. However, it should be appreciated that the display devices can display any visual representation or exhibition, including but not limited to movement of physical objects such as mechanical reels and wheels, dynamic lighting and video images. A display device can be any viewing surface such as glass, a video monitor or screen, a liquid crystal display
20 or any other display mechanism. If the reels 34 are in video form, the display device for the video reels 34 is preferably a video monitor.

Each reel 34 displays a plurality of indicia such as bells, hearts, fruits, numbers, letters, bars or other images which preferably correspond to a theme

associated with the gaming device 10. Furthermore, gaming device 10 preferably includes speakers 36 for making sounds or playing music.

As illustrated in Fig. 2, the general electronic configuration of gaming device 10 preferably includes: a processor 38; a memory device 40 for storing
5 program code or other data; a central display device 30; an upper display device 32; a sound card 42; a plurality of speakers 36; and one or more input devices 44. The processor 38 is preferably a microprocessor or microcontroller-based platform which is capable of displaying images, symbols and other indicia such as images of people, characters, places, things and faces of cards. The
10 processor may include a sub-processor for performing certain game functions. The memory device 40 can include random access memory (RAM) 46 for storing event data or other data generated or used during a particular game. The memory device 40 can also include read only memory (ROM) 48 for storing program code which controls the gaming device 10 so that it plays a particular
15 game in accordance with applicable game rules and pay tables.

As illustrated in Fig. 2, the player preferably uses the input devices 44, such as pull arm 18, play button 20, the bet one button 24 and the cash out button 26 to input signals into gaming device 10. In certain instances it is preferable to use a touch screen 50 and an associated touch screen controller
20 52 instead of a conventional video monitor display device. Touch screen 50 and touch screen controller 52 are connected to a video controller 54 and processor 38. A player can make decisions and input signals into the gaming device 10 by touching touch screen 50 at the appropriate places. As further

illustrated in Fig. 2, the processor 38 can be connected to coin slot 12 or bill acceptor 14. The processor 38 can be programmed to require a player to deposit a certain amount of money in order to start the game.

It should be appreciated that although a processor 38 and memory device 40 are preferable implementations of the present invention, the present invention can also be implemented using one or more application-specific integrated circuits (ASIC's) or other hard-wired devices, or using mechanical devices (collectively referred to herein as a "processor"). Furthermore, although the processor 38 and memory device 40 preferably reside on each gaming device 10 unit, it is possible to provide some or all of their functions at a central location such as a network server for communication to a playing station such as over a local area network (LAN), wide area network (WAN), Internet connection, microwave link, and the like. The processor 38 and memory device 40 is generally referred to herein as the "computer" or "controller."

With reference to Figs. 1A, 1B and 2, to operate the gaming device 10 in one embodiment the player must insert the appropriate amount of money or tokens at coin slot 12 or bill acceptor 14 and then pull the arm 18 or push the play button 20. The reels 34 will then begin to spin. Eventually, the reels 34 will come to a stop. As long as the player has credits remaining, the player can spin the reels 34 again. Depending upon where the reels 34 stop, the player may or may not win additional credits.

In addition to winning credits in this manner, preferably gaming device 10 also gives players the opportunity to win credits in a bonus round. This type of

gaming device 10 will include a program which will automatically begin a bonus round when the player has achieved a qualifying condition in the game. This qualifying condition can be for instance a particular arrangement of indicia on a display device. The gaming device 10 preferably uses a video-based central display device 30 to enable the player to play the bonus round. In one embodiment, the qualifying condition is a predetermined combination of indicia appearing on a plurality of reels 34. As illustrated in the five reel slot game shown in Figs. 1A and 1B, the qualifying condition could be the number seven appearing on three adjacent reels 34 along a payline 56. It should be appreciated that the present invention can include one or more paylines, such as payline 56, wherein the paylines can be horizontal, diagonal or any combination thereof.

Bonus Game

If a player achieves a bonus triggering or qualifying condition while playing the game, the gaming device 10 automatically initiates the bonus round of the present invention. The bonus scheme of the present invention includes: a plurality of inputs; a plurality of value sets associated with the outcomes of the inputs or input outcomes; and one or more values included within each value set. The player can make inputs and cause the gaming device to store or otherwise designate, and preferably indicate, values until the player reaches a terminating condition. Preferably, the input is a player choosing one or more selections from a plurality of selections. A terminating condition can occur when

the player makes an input which causes a predetermined outcome to occur, when the player makes a predetermined number of inputs, when the gaming device stores, designates or indicates all of the values in a value set or when any other predetermined event or sequence of events occurs. The gaming
5 device provides the player with some, and preferably with all of the stored, designated or indicated values when the bonus round terminates.

A value set can include any number of values. Preferably the values in each value set vary in magnitude. It is also preferable that the various value sets in a bonus round include the same quantity of values.

10 The values included in each value set are arranged in a predetermined value order. The value order is preferably related to the visual arrangement of the values in a value set. For example, a value set 114 could include values ten, forty, seventy and five hundred arranged in a horizontal fashion, as illustrated in Fig. 3. The value order could be sequential from left to right,
15 sequential from right to left or any logical, illogical or random manner in which the gaming device indicates values. The value order can also be non-incremental, resulting in the indication of more than one value at once. If the value order were sequential from left to right, the gaming device may indicate values as follows: first, ten; second, forty; third, seventy; and fourth, five
20 hundred.

Referring to Fig. 4, in operation of one embodiment, the gaming device initially displays a plurality of value sets and enables a player to make one or more inputs as indicated by block 102. The player then makes an input as

indicated by block 104. As indicated by diamond 106 and block 108 if a terminating condition does not occur, the gaming device stores in memory, designates and preferably indicates, a value in a value set associated with the input outcome, and the gaming device does so in accordance with the value order of that value set. This entire process repeats itself until the player reaches a terminating condition as indicated by diamond 106. Once a terminating condition occurs, the gaming device provides the player with the payout corresponding to some, and preferably all, of the stored, designated or indicated values, and the gaming device then terminates the bonus round as indicated by block 110.

In one embodiment of the present invention illustrated in Figs. 5A through 5G, the input is the player choosing one or more selections from a plurality of selections 112a through 112p. The gaming device displays the plurality of selections and two value sets 114a and 114b to the player. The selections are illustrated as boxes, however, they can be graphical representations of any person, place or thing. The quantity of selections 112a through 112p exceeds the quantity of values 116a through 116j included in both of the value sets 114a and 114b. The value sets 114a and 114b include a vertical visual arrangement of values. The value order for both value sets 114a and 114b begins with the bottom value 116e or 116j, respectively, and moves upward, sequentially in a ladder-like fashion until reaching the top values 116a or 116f, respectively. This value order is illustrated in Figs. 5A through 5G with the arrows leading from one value to another. Although the values for each

value set may differ with no particular order, the magnitude of values within each value set preferably increases in accordance with the value order.

In the example bonus round shown in Figs. 5A through 5G, value set 114a incorporates a star theme, and value set 114b incorporates a diamond theme. The themes are incorporated into the value sets graphically, as illustrated by the star symbol 118 and the diamond symbol 120 located above value set 114a and value set 114b, respectively. Here, each value set includes five values. The gaming device enables the player to choose selections 112a through 112p, individually by touching a touch screen, activating a play button or using any other suitable activator or selector. When a player chooses a selection, the gaming device reveals a symbol at the location of the chosen selection. The input outcome in this embodiment is the symbol. A symbol can be any audio and/or visual representation of a person, place or thing. Each symbol corresponds to or is associated with one of the value sets, preferably in an audio and/or visual manner. In this example, the star symbol 118 corresponds to the star-themed value set 114a, and the diamond symbol 120 corresponds to the diamond-themed value set 114b. It should be appreciated that more than two value sets could be employed.

This example includes three types of symbols: the star symbol 118, the diamond symbol 120 and a game limit symbol 122. When a player reaches a game limit symbol, the gaming device may immediately terminate the bonus round or terminate the bonus round after the player makes a predetermined number of additional choices or inputs, such as two or three additional inputs.

In this embodiment, if the player reaches a game limit symbol 122, the gaming device terminates the bonus round after the player makes one additional choice of a selection. Here, game limit symbol 122 is illustrated by the following encircled text: "ONE MORE CHOICE."

5 With reference to Fig. 5A, the gaming device initially displays the selections 112a through 112p and value sets 114a and 114b to the player. The player then chooses selection 112f as shown in Fig. 5B. The gaming device then unmask or reveals star symbol 118 at the location of selection 112f. Next, the gaming device indicates value 116e with an indicator 124 which is
10 illustrated as a checkmark located adjacent to the value 116e. It should be appreciated that indicators 124 can include any audio and/or visual technique or manner of indicating values 116 or otherwise informing a player as to what values the gaming device has designated for the player.

 The player then chooses another selection 112o, as shown in Fig. 5C.
15 Again, the player reaches a star symbol 118. Accordingly the gaming device indicates value 116d. As shown in Fig. 5D, upon the player's next choice, which is selection 112l, the player reaches a diamond symbol 120. The gaming device then indicates value 116j. Continuing, the player chooses selection 112g, as shown in Fig. 5E. Here, the player reaches another star symbol 118,
20 and the gaming device indicates value 116c. The player then chooses selection 112m as shown in Fig. 5F. Here, the gaming device unmask or reveals game limit symbol 122 which causes the bonus round to terminate after the player chooses one more selection 112. The player's final choice is

selection 112b, as shown in Fig. 5G. With this choice, the player reaches diamond symbol 120, and the gaming device indicates value 116i appropriately. At this point, the gaming device awards the player with the sum of the indicated values 116c, 116d, 116e, 116j and 116i, which is seven hundred ten (i.e., 300 + 5 80 + 50 + 250 + 30). The bonus round then terminates.

In other embodiments illustrated in Figs. 6A through 6E, the gaming device processor applies a predetermined mathematical formula to the designated values before providing the player with a final bonus award. The gaming device initially displays the selections 112a through 112p and value sets 10 114a and 114b to the player. Value set 114a has a star theme indicated by star symbol 118, and all star symbols are associated with value set 114a. Likewise, value set 114b has a diamond theme indicated by diamond symbol 120, and all diamond symbols are associated with value set 114b.

Value set 114a includes values 126a to 126e, and value set 114 includes 15 values 126f to 126j. Display window 128 displays the running total of all values designated in value set 114a, and display window 130 displays the running total of all values designated in value set 114b. In this example, the player chose a total of five selections, specifically selections 112b, 112f, 112g, 112o and 112m.

When the player chose selection 112b, an outcome occurred which 20 caused the processor to designate values 126j and 126i in the diamond value set 114b. This outcome is a multi-value outcome which causes the processor to move two steps up value set 114a and designate values 126j and 126i. This outcome is indicated by diamond symbol 120a which states "2 UP." The

designation of values is illustrated in this example by bolding the borders of the values: Display window 130 for value set 114b displays two hundred eighty credits, the sum of designated values two hundred fifty and thirty.

When the player chose selections 112f, 112g and 112o, following each
5 choice the processor designated a value 126e, 126d and 126c, respectively. This outcome causes the processor to move one step up value set 114b with each choice of each selection 112f, 112g and 112o. This outcome is designated by star symbol 118a which states "1 UP." Display window 128 for value set 114a displays five hundred sixty credits, the sum of designated values
10 four hundred, one hundred and sixty.

When the player chose selection 112m, a termination outcome occurred which is indicated by terminator symbol 132. The termination outcome terminated the bonus round and also caused the processor to apply a mathematical formula involving the designated values in the value sets 114a
15 and 114b. The result from applying this formula is displayed in display windows 134a to 134d which states "FINAL BONUS AWARD."

The mathematical formula for different embodiments is parenthetically illustrated in display windows 134a to 134d. As illustrated in Fig. 6A, the formula can include the addition of value set total 128 and value set total 130.
20 The formula can also include the subtraction of value set total 130 from value set total 128, as illustrated in Fig. 6B. Also, the formula can include the multiplication of value set total 128 by value set total 130, as illustrated in Fig. 6C. Furthermore, the formula can include the division of value set total 128 by

value set total 130, as illustrated in Fig. 6D. As illustrated in Fig. 6E, the formula can include any predetermined mathematical manipulation or change to value set total 128 and value set total 130. After the processor applies any of such formulas, the gaming device awards the player with the resulting value.

5 The bonus scheme of the present invention enables players to make inputs and receive certain values associated with the outcomes of certain inputs. By including the values within value sets and indicating values in a predetermined order, the gaming device enables players to monitor their award growth and to aim for values in particular value sets. This type of bonus
10 scheme increases the excitement and enjoyment experienced by gaming device players.

 In one alternative embodiment, if a player chooses a predetermined selection or if a predetermined event occurs, or at the end of the game, the gaming device can award the player with the highest designated value, the
15 lowest designated value, the average of the designated values, the last designated value, a predetermined designated value in the order, or a randomly determined designated value in the order, included within one or more of the value sets. For instance, when the player makes a final selection before the bonus round terminates, the gaming device could award the player with the
20 highest value within the value set which is associated with that final selection.

 In another alternative embodiment, the gaming device could enable the player to designate a desired value set as a preferred or distinct value set. The gaming device could then associate a predetermined factor with the distinct

value set. Preferably the factor increases the award level of the distinct value set. For example, the factor may increase the awards within that value set by two times.

5 In a further alternative embodiment, a predetermined or randomly determined mathematical formula is associated with a terminator or terminating selection. When the selection having the terminator is picked, the mathematical formula associated with the terminator or terminating selection is employed to determine the award based on the designated values in one or more of the value sets as described above. In a further alternative embodiment, a plurality
10 of predetermined or randomly determined mathematical formulas are associated with a plurality of terminators or terminating selections. When one of the selections having a terminator is picked, the mathematical formula associated with that terminator or terminating selection is employed to determine the award based on the designated values in one or more of the
15 value sets as described above.

While the present invention has been described in connection with what is presently considered to be the most practical and preferred embodiments, it is to be understood that the invention is not limited to the disclosed embodiments, but on the contrary is intended to cover various modifications and equivalent
20 arrangements included within the spirit and scope of the claims. It is thus to be understood that modifications and variations in the present invention may be made without departing from the novel aspects of this invention as defined in

the claims, and that this application is to be limited only by the scope of the claims.